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# 2010 MICHIGAN FALL TURKEY HUNTER SURVEY

Brian J. Frawley

## ABSTRACT

*A survey of turkey hunters was conducted following the 2010 fall hunting season to determine turkey harvest and hunter participation. Many changes were implemented to the fall turkey hunting season beginning in 2010, including expanding the hunting season and allowing hunters to purchase multiple hunting licenses. In 2010, hunters purchased 30,005 licenses for the fall turkey hunting season, which was 45% higher than in 2009. Most license buyers (92%) purchased a single hunting license. During the 2010 fall hunt, an estimated 20,664 hunters harvested about 6,645 turkeys. Hunter numbers and their hunting effort increased 26% and 41%, respectively, from 2009. The 2010 harvest increased 67% from 2009. Hunter success was 29% in 2010 (versus 24% success in 2009). About 59% of the hunters in 2010 rated their hunting experience as excellent, very good, or good (versus 58% satisfaction in 2009). The number of hunters, hunting effort, turkey harvested, and hunter success in 2010 increased significantly from 2009; however, hunter satisfaction did not change significantly from 2009.*

## INTRODUCTION

Fall wild turkey (*Meleagris gallopavo*) hunting seasons were implemented in Michigan to help maintain turkey populations at levels matching biological and social carrying capacities. In 2010, 8 management units totaling about 36,078 square miles were open for fall turkey hunting during September 15-November 14 (Figure 1).

Many changes were implemented to the fall turkey hunting season beginning in 2010. The season opened September 15, versus starting during the first week of October during prior years. New hunt unit boundaries were established, including hunt Unit M



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was expanded to include all of the Upper Peninsula. A new hunting unit (YY) was created to encompass private land in southern Michigan and on Beaver Island (Figure 1). There was no fall turkey season in the Northern Lower Peninsula in 2010. Beginning August 30, hunters could purchase one license per day until quotas were met.

People interested in obtaining a turkey hunting license could enter into a random drawing (lottery) conducted by the Department of Natural Resources (DNR) or purchase a license for Hunt 501 without going through the lottery. Applicants could choose one hunt area for the drawing. Any licenses available after the drawing was completed were made available on a first-come, first-served basis to applicants and nonapplicants beginning August 30. Licenses were available for four management units (units HA, L, M, and YY) after the drawing was completed (Table 1). Hunters could purchase one of these remaining licenses per day until quotas were met.

Licenses for Hunt 407 (Unit HA) and Hunt 501 (Unit YY) were valid on private lands only, while licenses for hunts 401, 402, 403, 404, 405 and 406 (units G, GB, GC, L, M, and W) were valid on either land ownership types (i.e., public or private land). Hunters were allowed to take one turkey of either sex with the harvest tag issued with each license. Turkey could be harvested with a shotgun, crossbow, or archery equipment. Hunters 12-years-old or older could use a crossbow to hunt turkeys. Hunters using a crossbow were required to obtain a free crossbow stamp, except hunters with a disability already hunting under a DNR-issued crossbow permit did not need the stamp.

The Pure Michigan Hunt (PMH) was a unique multi-species hunting opportunity offered for the first time in 2010. Individuals could purchase an unlimited number of applications for the PMH. Three individuals were randomly chosen from all applications, and winners received elk, bear, spring turkey, fall turkey, and antlerless deer hunting licenses and could participate in a reserved waterfowl hunt on a managed waterfowl area. The fall turkey hunting licenses were valid for all areas open for hunting turkey.

The Natural Resources Commission and DNR have the authority and responsibility to protect and manage the wildlife resources of the state of Michigan. Harvest surveys are one of the management tools used to meet their statutory responsibility. Estimating harvest, hunting effort, and hunter satisfaction are among the primary objectives of these surveys.

## **METHODS**

The DNR provided hunters the option to voluntarily report information about their turkey hunting activity via the internet. This option was advertised in the hunting regulations booklet, on the DNR website, and in an email message that was sent to licensees that had provided an email address to the DNR (7,522 people). Hunters could report information anytime during the hunting season. Hunters reported whether they hunted, number of days spent afield, and how many turkeys they harvested. Successful hunters also were asked to report where their turkeys were taken (public or private land) and beard length of harvested birds. Birds with a beard <4 inches long were classified as

juveniles ( $<1$  year old), while birds with longer beards were adults ( $\geq 1$  year old) (Kelly 1975). In addition, hunters were asked what type of hunting equipment was used to hunt turkeys and kill turkeys. Finally, hunters rated their overall hunting experience (excellent, very good, good, fair, or poor).

Following the 2010 fall turkey hunting season, a questionnaire was sent to 7,160 randomly selected people that had purchased a turkey hunting license (resident turkey, senior resident turkey, and nonresident turkey licenses) and had not already voluntarily reported harvest information via the internet. Hunters receiving the questionnaire were asked to report the same information that was collected from hunters that reported voluntarily on the internet.

Estimates were calculated using a stratified random sampling design that included 11 strata (Cochran 1977). Strata 1-8 consisted of hunters with licenses for a single management unit ( $N_G=116$ ;  $N_{GB}=153$ ;  $N_{GC}=117$ ;  $N_{HA}=1,099$ ;  $N_L=608$ ;  $N_M=2551$ ;  $N_W=104$ ; and  $N_{YY}=21,295$ ). The ninth stratum included hunters obtaining only a Pure Michigan Hunt license ( $N=2$ ). The tenth stratum consisted of hunters having licenses for multiple management units ( $N=288$ ). Finally, hunters that had voluntarily reported information about their hunting activity via the internet before the mail survey sample was selected were treated as the eleventh stratum ( $N=978$ ).

Because estimates were based on information collected from random samples of hunting license buyers, these estimates were subject to sampling errors (Cochran 1977). Thus, a 95% confidence limit (CL) was calculated for each estimate. In theory, this CL can be added and subtracted from the estimate to calculate the 95% confidence interval. The confidence interval is a measure of the precision associated with the estimate and implies the true value would be within this interval 95 times out of 100. Unfortunately, there are several other possible sources of error in surveys that are probably more serious than theoretical calculations of sampling error. They include failure of participants to provide answers (nonresponse bias), question wording, and question order. It is very difficult to measure these biases; thus, estimates were not adjusted for these possible biases.

Statistical tests are used routinely to determine the likelihood that the differences among estimates are larger than expected by chance alone. The overlap of 95% confidence intervals was used to determine whether estimates differed. Non-overlapping 95% confidence intervals was equivalent to stating the difference between the means was larger than would be expected 995 out of 1,000 times, if the study had been repeated (Payton et al. 2003).

Questionnaires were mailed initially during late December 2010, and up to two follow-up questionnaires were mailed to nonrespondents. Although 7,160 people were sent the questionnaire, 63 surveys were undeliverable resulting in an adjusted sample size of 7,097. Questionnaires were returned by 5,383 people, yielding a 76% adjusted response rate. In addition, 978 people voluntarily reported information about their hunting activity via the internet.

## RESULTS

In 2010, the DNR offered 52,553 licenses for sale, and hunters purchased 30,005 licenses for the fall turkey hunting season (Table 1). A total of 2,430 licenses were purchased by people successful in the drawing, and another 1,199 leftover licenses were purchased by people that had applied for a hunt in the drawing. In addition, 26,376 licenses were purchased by people that had not entered into the drawing.

The number of licenses sold in 2010 increased 45% from 2009. The average age of the license buyers was 48 years (Figure 2). About 6% of the license buyers were younger than 17 years old (1,705). Most license buyers (92%) purchased a single hunting license in 2010 (Figure 3). About 6% of hunters purchased 2 licenses, 1% of hunters purchased 3 licenses, and less than 1% of hunters purchased 4 or more licenses.

In 2010, about 20,664 hunters spent 137,155 days afield pursuing turkeys ( $\bar{x} = 6.6 \pm 0.2$  days/hunter) (Tables 2 and 3, Figure 4). The number of people pursuing turkeys in 2010 increased significantly by 26%, and their hunting effort increased significantly by 41% from 2009. About 96% of the hunters that went afield were males ( $19,742 \pm 316$ ), and 4% of the hunters were females ( $922 \pm 127$ ).

About 29% of active hunters successfully harvested a turkey in 2010, and they harvested an estimated 6,645 turkeys (Tables 4 and 5). Both the number of turkeys harvested (67%) and hunter success (5 percentage points higher) in 2010 increased significantly from 2009 (Figure 4). Among the 5,942 hunters that took at least one turkey, 91% ( $5,419 \pm 277$ ) of these hunters took one turkey, 7% ( $406 \pm 82$ ) took 2 turkeys, 1% ( $69 \pm 34$ ) took 3 turkeys, and less than 1% took more than 3 turkeys (Figure 5). Hunter success was statistically greater for hunters using private lands than for hunters using public lands (29% versus 16%, Table 4).

About 94% ( $19,376 \pm 306$ ) of turkey hunters hunted solely on private land, 4% ( $814 \pm 67$ ) hunted on public land only, and 2% ( $422 \pm 55$ ) hunted on both private and public lands. Additionally,  $52 \pm 21$  hunters hunted on land of unknown ownership. Of the 6,645 turkeys harvested in 2010, 97% of these birds were taken on private land (6,422), while about 3% of the harvest (197) was taken on public land (Table 5). Additionally, 26 birds were harvested from land of unknown ownership. About 55% of the harvested birds had a beard ( $3,669 \pm 260$ ). Most of these bearded birds (84%) were adults ( $3,069 \pm 240$ ); 16% were juvenile birds ( $600 \pm 102$ ).

Of the 20,664 turkey hunters in 2010, nearly 59% rated their hunting experience as either excellent, very good, or good (Table 6). Satisfaction was statistically greater for hunters using private lands than for hunters using public lands (60% versus 44%). Changes in hunter satisfaction between years generally parallel changes in hunter success (Figure 6). Between 2009 and 2010, hunter success increased (24% versus 29%); however, satisfaction was not statistically changed (58% versus 59%).

Hunter numbers were greatest in Sanilac, Lapeer, Jackson, Tuscola, Kent, and St. Clair counties; these counties had more than 700 hunters (Table 7). Harvest was greatest in Tuscola, Sanilac, Lapeer, St. Clair, Allegan, Kent, Ottawa, and Huron counties; these counties had more than 200 turkeys taken by hunters.

Most hunters ( $69 \pm 1\%$ ;  $14,327 \pm 349$  hunters) used shotguns while hunting turkeys, although  $30 \pm 1\%$  ( $6,283 \pm 296$ ) of the hunters used either a compound, recurve, or long bow and  $17 \pm 1\%$  ( $3,444 \pm 233$ ) used a crossbow. About 80% ( $5,292 \pm 317$ ) of the harvested turkeys were taken with a shotgun, while 12% ( $766 \pm 125$ ) were taken with either a compound, recurve, or long bow. About 9% ( $580 \pm 104$ ) of harvested turkeys were taken with a crossbow. Additionally, the hunting device used to take 7 birds was unknown. About  $72 \pm 3\%$  of the turkey hunters using a crossbow had obtained the crossbow stamp.

## **ACKNOWLEDGEMENTS**

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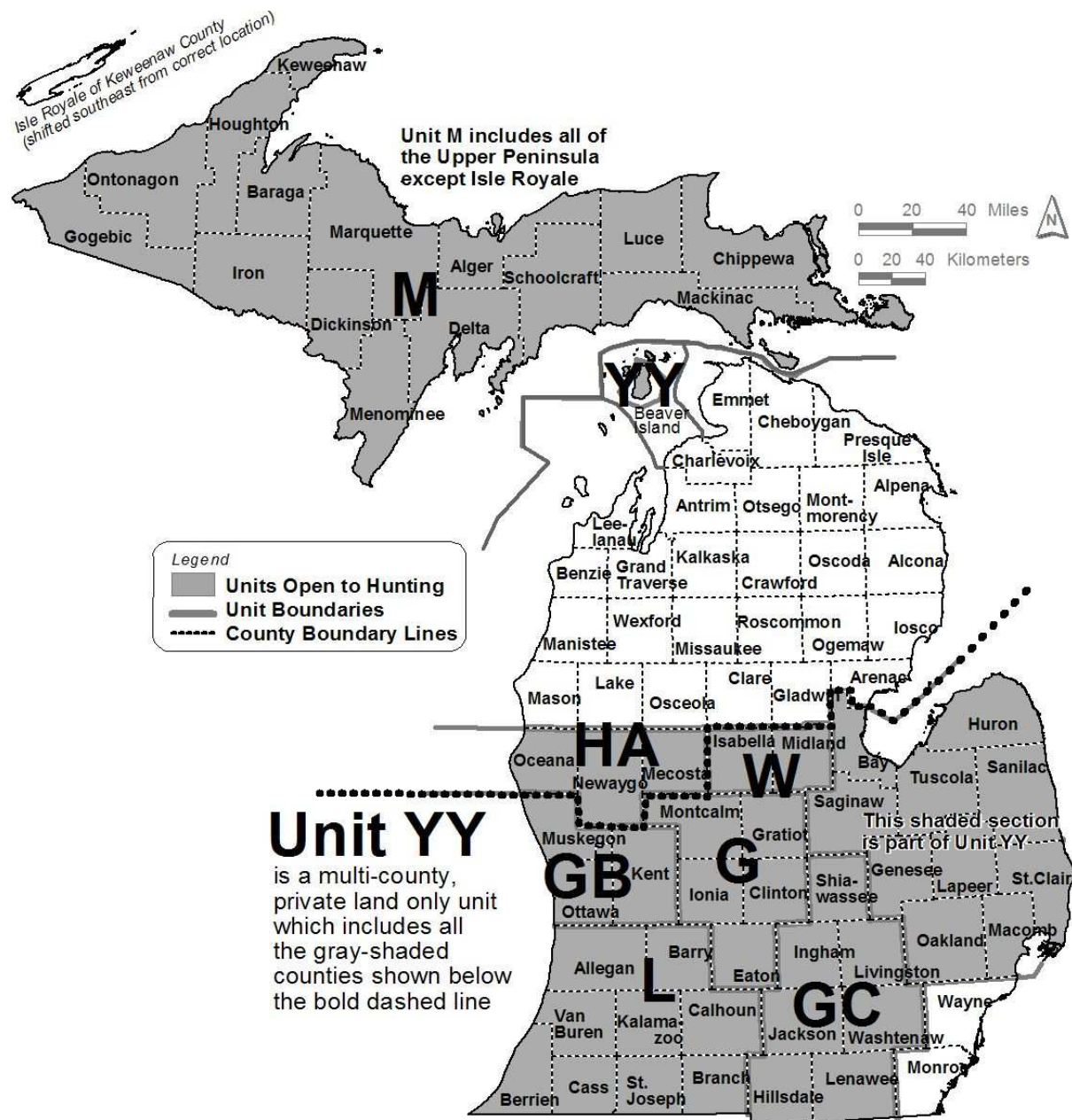


Figure 1. Management units open for fall turkey hunting in Michigan, 2010.

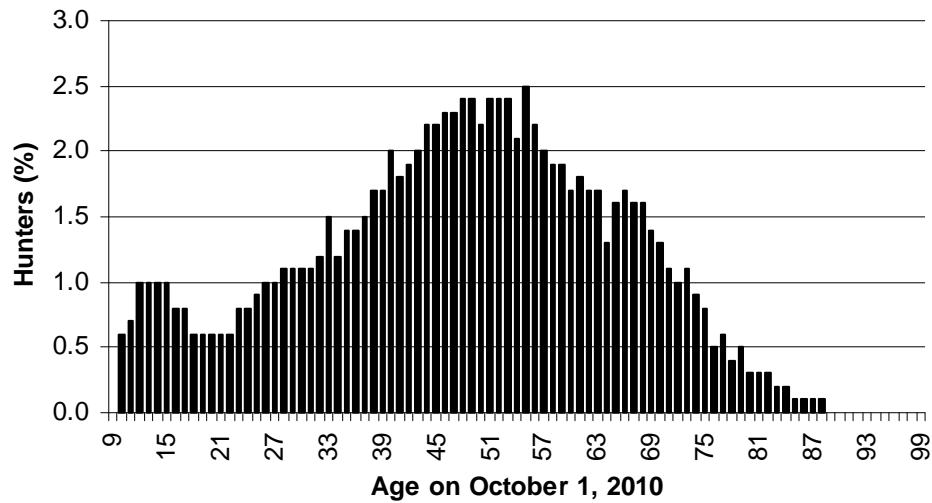


Figure 2. Age of people that purchased a turkey hunting license in Michigan for the 2010 fall hunting season ( $\bar{x} = 48$  years). Licenses were purchased by 27,311 people.

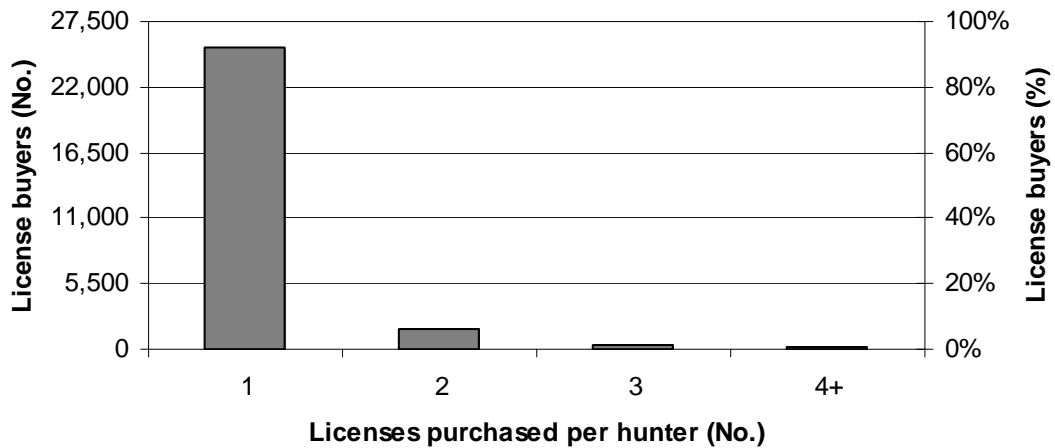


Figure 3. Number of licenses purchased per person for hunting turkey in Michigan during the 2010 fall hunting season.

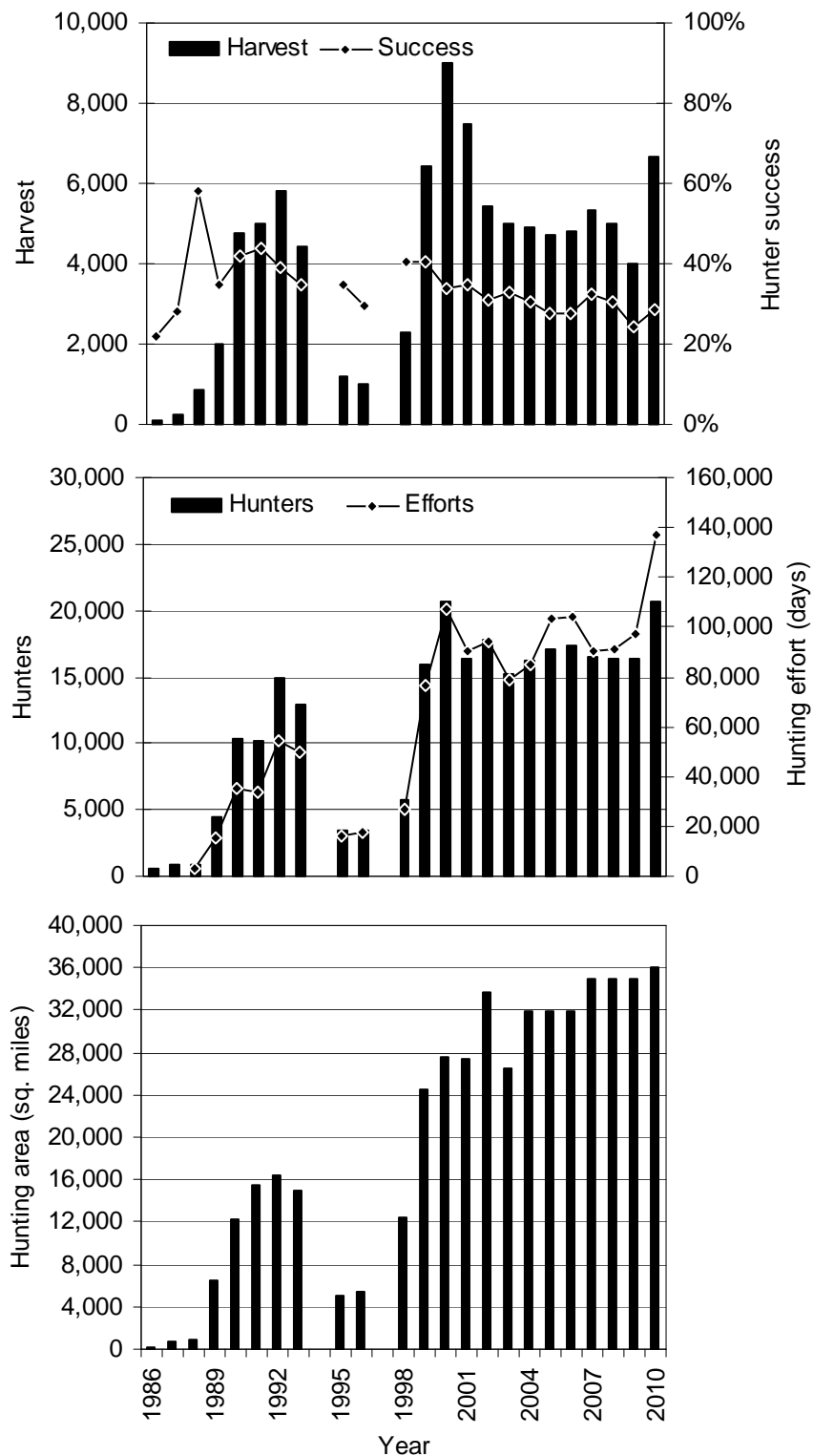


Figure 4. Number of hunters, hunting efforts (days), harvest, hunting success, and hunting area during the fall turkey hunting season, 1986-2010. Turkeys were not hunted during the fall in 1994 and 1997.



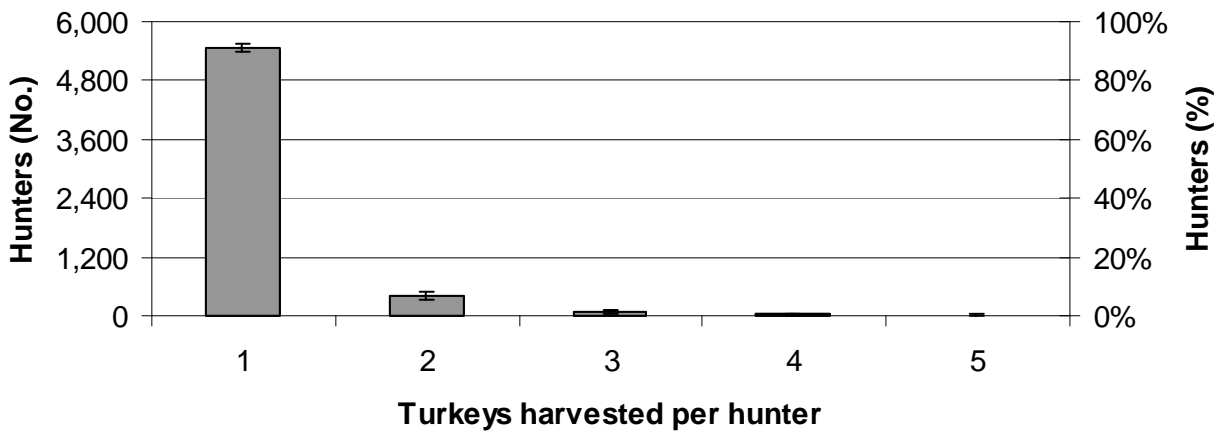


Figure 5. Number of turkeys harvested per successful hunter in Michigan during the 2010 fall hunting season.

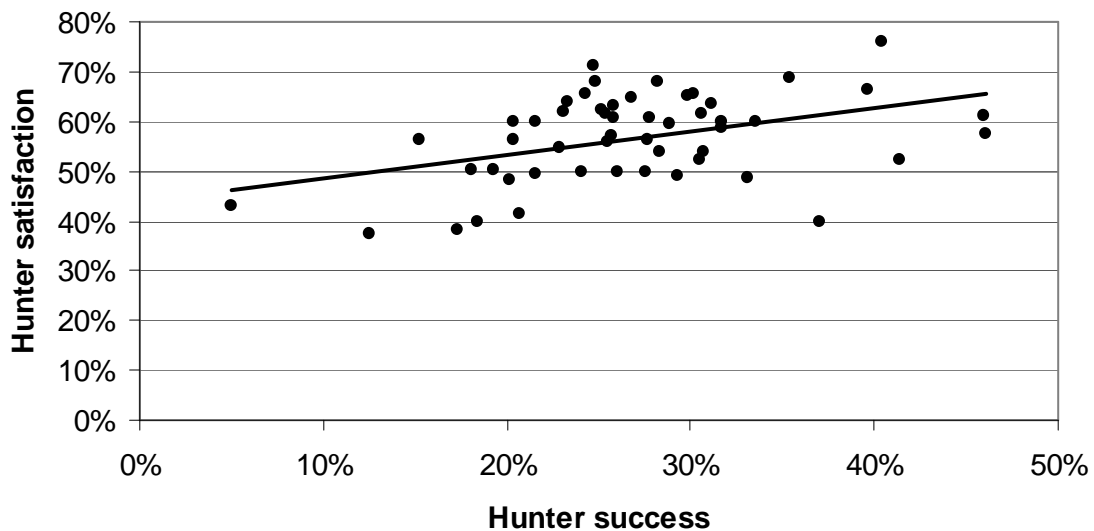


Figure 6. Hunter satisfaction (expressed as the percentage of hunters rating their hunting experience as excellent, very good, or good) associated with hunter success for each of 53 counties in Michigan during the 2010 fall turkey hunting season (included only counties with at least 20 hunters).

Table 1. Number of hunting licenses available and people applying for licenses during the 2010 Michigan fall turkey hunting season.

| Management unit      | Hunt            | Licenses available (quota) <sup>a</sup> | Number of eligible applicants | Number of applicants successful in drawing | Number of licenses remaining after drawing | Number of licenses purchased by successful applicants | Number of leftover licenses purchased by applicants | Number of leftover licenses purchased by people not in the drawing | Licenses sold |
|----------------------|-----------------|---|-------------------------------|--|--|---|---|--|---------------|
| G                    | 401             | 200                                     | 479                           | 200  | 0  | 136   | 0   | 0  | 136           |
| GB                   | 402             | 250                                     | 367                           | 250  | 0  | 178   | 0   | 0  | 178           |
| GC                   | 403             | 200                                     | 1,019                         | 200  | 0  | 132   | 0   | 0  | 132           |
| HA <sup>b</sup>      | 407             | 1,700                                   | 1,120                         | 1,120                                      | 580  | 786   | 68  | 445  | 1,299         |
| L                    | 404             | 1,000                                   | 925                           | 925  | 75   | 643   | 17  | 52   | 712           |
| M                    | 405             | 4,000                                   | 690                           | 690  | 3,310                                      | 430   | 128   | 2,327  | 2,885         |
| W                    | 406             | 200                                     | 245                           | 201  | 0  | 122   | 0   | 0  | 122           |
| YY <sup>b</sup>      | 501             | 45,000                                  | 0                             | 0  | 45,000                                     | 0   | 986   | 23,552   | 24,538        |
| Pure MI <sup>c</sup> | NA <sup>c</sup> | 3                                       | 0                             | 0  | 0  | 3   | 0   | 0  | 3             |
| Statewide            | All             | 52,553                                  | 4,845                         | 3,586                                      | 48,965                                     | 2,430   | 1,199   | 26,376   | 30,005        |

<sup>a</sup>Quotas were assigned by hunts within each management unit.

<sup>b</sup>Licenses were valid on private lands only.

<sup>c</sup>Pure Michigan Hunt. These hunters could hunt in any management unit.

Table 2. Number of hunters during the 2010 Michigan fall turkey hunting season.

| Area and<br>hunting<br>license | Land type |        |        |        |         |        |                    |        |
|--------------------------------|-----------|--------|--------|--------|---------|--------|--------------------|--------|
|                                | Private   |        | Public |        | Unknown |        | All land types     |        |
|                                | Total     | 95% CL | Total  | 95% CL | Total   | 95% CL | Total <sup>a</sup> | 95% CL |
| G                              |           |        |        |        |         |        |                    |        |
| 401                            | 63        | 7      | 41     | 7      | 1       | 2      | 100                | 6      |
| 501 <sup>b</sup>               | 1,588     | 173    | 0      | 0      | 0       | 0      | 1,588              | 173    |
| Multiple <sup>c</sup>          | 18        | 4      | 5      | 2      | 0       | 0      | 23                 | 5      |
| Subtotal                       | 1,670     | 174    | 46     | 7      | 1       | 2      | 1,711              | 174    |
| GB                             |           |        |        |        |         |        |                    |        |
| 402                            | 105       | 6      | 31     | 5      | 1       | 1      | 127                | 5      |
| 501 <sup>b</sup>               | 1,551     | 172    | 0      | 0      | 0       | 0      | 1,551              | 172    |
| Multiple <sup>c</sup>          | 45        | 7      | 5      | 2      | 0       | 0      | 48                 | 7      |
| Subtotal                       | 1,701     | 172    | 36     | 6      | 1       | 1      | 1,726              | 172    |
| GC                             |           |        |        |        |         |        |                    |        |
| 403                            | 57        | 7      | 46     | 7      | 0       | 0      | 102                | 5      |
| 501 <sup>b</sup>               | 3,488     | 244    | 0      | 0      | 0       | 0      | 3,488              | 244    |
| Multiple <sup>c</sup>          | 18        | 4      | 5      | 2      | 1       | 1      | 22                 | 5      |
| Subtotal                       | 3,564     | 245    | 51     | 7      | 1       | 1      | 3,612              | 244    |
| HA                             |           |        |        |        |         |        |                    |        |
| 407 <sup>b</sup>               | 913       | 28     | 0      | 0      | 0       | 0      | 913                | 28     |
| Multiple <sup>c</sup>          | 39        | 6      | 0      | 0      | 0       | 0      | 39                 | 6      |
| Subtotal                       | 952       | 29     | 0      | 0      | 0       | 0      | 952                | 29     |
| L                              |           |        |        |        |         |        |                    |        |
| 404                            | 315       | 20     | 253    | 19     | 3       | 3      | 523                | 14     |
| 501 <sup>b</sup>               | 3,200     | 238    | 0      | 0      | 0       | 0      | 3,200              | 238    |
| Multiple <sup>c</sup>          | 81        | 8      | 21     | 5      | 0       | 0      | 92                 | 8      |
| Subtotal                       | 3,597     | 239    | 274    | 20     | 3       | 3      | 3,815              | 238    |
| M                              |           |        |        |        |         |        |                    |        |
| 405                            | 1,384     | 82     | 790    | 76     | 41      | 21     | 1,898              | 73     |
| Multiple <sup>c</sup>          | 17        | 4      | 9      | 3      | 1       | 1      | 24                 | 5      |
| Subtotal                       | 1,401     | 82     | 799    | 76     | 43      | 21     | 1,922              | 73     |
| W                              |           |        |        |        |         |        |                    |        |
| 406                            | 60        | 6      | 22     | 5      | 1       | 1      | 83                 | 5      |
| 501 <sup>b</sup>               | 518       | 99     | 0      | 0      | 0       | 0      | 518                | 99     |
| Multiple <sup>c</sup>          | 16        | 4      | 4      | 2      | 0       | 0      | 19                 | 5      |
| Subtotal                       | 594       | 100    | 26     | 6      | 1       | 1      | 621                | 100    |
| Eastern YY <sup>d</sup>        |           |        |        |        |         |        |                    |        |
| 501 <sup>b</sup>               | 5,594     | 292    | 0      | 0      | 0       | 0      | 5,594              | 292    |
| Multiple <sup>c</sup>          | 27        | 5      | 0      | 0      | 0       | 0      | 27                 | 5      |
| Subtotal                       | 5,621     | 292    | 0      | 0      | 0       | 0      | 5,621              | 292    |
| Unknown YY <sup>e</sup>        |           |        |        |        |         |        |                    |        |
| 501 <sup>b</sup>               | 1,163     | 153    | 0      | 0      | 0       | 0      | 1,163              | 153    |
| Multiple <sup>c</sup>          | 12        | 4      | 4      | 2      | 0       | 0      | 12                 | 4      |
| Subtotal                       | 1,175     | 153    | 4      | 2      | 0       | 0      | 1,175              | 153    |
| Statewide                      |           |        |        |        |         |        |                    |        |
| Total                          | 19,791    | 306    | 1,235  | 79     | 51      | 21     | 20,664             | 304    |

<sup>a</sup>Number of hunters may not add up to total because hunters could hunt on both private and public lands.

<sup>b</sup>Licenses were valid on private lands only.

<sup>c</sup>Hunters that purchased multiple hunting licenses for multiple hunting areas.

<sup>d</sup>Included Bay, Genesee, Huron, Lapeer, Macomb, Oakland, Saginaw, Sanilac, St Clair, and Tuscola counties within Management Unit YY.

<sup>e</sup>Hunting activity occurred at unknown location within Management Unit YY.

Table 3. Days of hunting effort during the 2010 Michigan fall turkey hunting season.

| Area and hunting license | Land type |        |        |        |         |        |                    |        |
|--------------------------|-----------|--------|--------|--------|---------|--------|--------------------|--------|
|                          | Private   |        | Public |        | Unknown |        | All land types     |        |
|                          | Total     | 95% CL | Total  | 95% CL | Total   | 95% CL | Total <sup>a</sup> | 95% CL |
| G                        |           |        |        |        |         |        |                    |        |
| 401                      | 438       | 95     | 370    | 99     | 9       | 10     | 817                | 121    |
| 501 <sup>b</sup>         | 9,614     | 1,474  | 0      | 0      | 0       | 0      | 9,614              | 1,474  |
| Multiple <sup>c</sup>    | 122       | 35     | 19     | 10     | 0       | 0      | 141                | 36     |
| Subtotal                 | 10,174    | 1,478  | 390    | 100    | 9       | 10     | 10,573             | 1,480  |
| GB                       |           |        |        |        |         |        |                    |        |
| 402                      | 654       | 85     | 234    | 58     | 6       | 6      | 895                | 93     |
| 501 <sup>b</sup>         | 8,942     | 1,348  | 0      | 0      | 0       | 0      | 8,942              | 1,348  |
| Multiple <sup>c</sup>    | 336       | 71     | 29     | 15     | 0       | 0      | 364                | 73     |
| Subtotal                 | 9,932     | 1,353  | 263    | 60     | 6       | 6      | 10,201             | 1,353  |
| GC                       |           |        |        |        |         |        |                    |        |
| 403                      | 492       | 115    | 266    | 53     | 0       | 0      | 758                | 112    |
| 501 <sup>b</sup>         | 23,977    | 2,540  | 0      | 0      | 0       | 0      | 23,977             | 2,540  |
| Multiple <sup>c</sup>    | 118       | 38     | 16     | 8      | 4       | 4      | 138                | 39     |
| Subtotal                 | 24,586    | 2,543  | 282    | 53     | 4       | 4      | 24,872             | 2,543  |
| HA                       |           |        |        |        |         |        |                    |        |
| 407 <sup>b</sup>         | 5,964     | 434    | 0      | 0      | 0       | 0      | 5,964              | 434    |
| Multiple <sup>c</sup>    | 219       | 46     | 0      | 0      | 0       | 0      | 219                | 46     |
| Subtotal                 | 6,183     | 436    | 0      | 0      | 0       | 0      | 6,183              | 436    |
| L                        |           |        |        |        |         |        |                    |        |
| 404                      | 2,307     | 242    | 2,051  | 239    | 33      | 41     | 4,391              | 303    |
| 501 <sup>b</sup>         | 21,700    | 2,396  | 0      | 0      | 0       | 0      | 21,700             | 2,396  |
| Multiple <sup>c</sup>    | 672       | 94     | 186    | 54     | 0       | 0      | 857                | 112    |
| Subtotal                 | 24,679    | 2,410  | 2,236  | 245    | 33      | 41     | 26,948             | 2,417  |
| M                        |           |        |        |        |         |        |                    |        |
| 405                      | 7,143     | 783    | 5,166  | 813    | 225     | 161    | 12,535             | 1,170  |
| Multiple <sup>c</sup>    | 58        | 21     | 29     | 12     | 1       | 1      | 89                 | 25     |
| Subtotal                 | 7,202     | 783    | 5,196  | 813    | 226     | 161    | 12,624             | 1,170  |
| W                        |           |        |        |        |         |        |                    |        |
| 406                      | 475       | 119    | 184    | 69     | 0       | 0      | 659                | 128    |
| 501 <sup>b</sup>         | 2,743     | 703    | 0      | 0      | 0       | 0      | 2,743              | 703    |
| Multiple <sup>c</sup>    | 93        | 27     | 16     | 9      | 0       | 0      | 109                | 28     |
| Subtotal                 | 3,312     | 713    | 200    | 70     | 0       | 0      | 3,511              | 715    |
| Eastern YY <sup>d</sup>  |           |        |        |        |         |        |                    |        |
| 501 <sup>b</sup>         | 36,073    | 2,886  | 0      | 0      | 0       | 0      | 36,073             | 2,886  |
| Multiple <sup>c</sup>    | 147       | 33     | 0      | 0      | 0       | 0      | 147                | 33     |
| Subtotal                 | 36,220    | 2,887  | 0      | 0      | 0       | 0      | 36,220             | 2,887  |
| Unknown YY <sup>e</sup>  |           |        |        |        |         |        |                    |        |
| 501 <sup>b</sup>         | 5,943     | 1,175  | 0      | 0      | 0       | 0      | 5,943              | 1,175  |
| Multiple <sup>c</sup>    | 66        | 23     | 13     | 9      | 0       | 0      | 79                 | 28     |
| Subtotal                 | 6,009     | 1,175  | 13     | 9      | 0       | 0      | 6,022              | 1,176  |
| Statewide                |           |        |        |        |         |        |                    |        |
| Total <sup>a</sup>       | 128,297   | 4,391  | 8,579  | 861    | 279     | 167    | 137,155            | 4,481  |

<sup>a</sup>Column and row totals for hunting effort may not equal statewide totals because of rounding errors.<sup>b</sup>Licenses were valid on private lands only.<sup>c</sup>Hunters that purchased multiple hunting licenses for multiple hunting areas.<sup>d</sup>Included Bay, Genesee, Huron, Lapeer, Macomb, Oakland, Saginaw, Sanilac, St Clair, and Tuscola counties within Management Unit YY.<sup>e</sup>Hunting activity occurred at unknown location within Management Unit YY.

Table 4. Hunting success (proportion of hunters taking at least one turkey) during the 2010 Michigan fall turkey hunting season.

| Area and<br>hunting<br>license | Land type |        |        |        |         |        |                |        |
|--------------------------------|-----------|--------|--------|--------|---------|--------|----------------|--------|
|                                | Private   |        | Public |        | Unknown |        | All land types |        |
|                                | Total     | 95% CL | Total  | 95% CL | Total   | 95% CL | Total          | 95% CL |
| G                              |           |        |        |        |         |        |                |        |
| 401                            | 23        | 7      | 7      | 6      | 0       | 0      | 18             | 5      |
| 501 <sup>a</sup>               | 26        | 5      | 0      | 0      | 0       | 0      | 26             | 5      |
| Multiple <sup>b</sup>          | 50        | 13     | 0      | 0      | 0       | 0      | 39             | 11     |
| Subtotal                       | 26        | 5      | 6      | 5      | 0       | 0      | 26             | 5      |
| GB                             |           |        |        |        |         |        |                |        |
| 402                            | 29        | 5      | 17     | 7      | 0       | 0      | 28             | 4      |
| 501 <sup>a</sup>               | 29        | 5      | 0      | 0      | 0       | 0      | 29             | 5      |
| Multiple <sup>b</sup>          | 35        | 8      | 25     | 20     | 0       | 0      | 35             | 7      |
| Subtotal                       | 29        | 5      | 18     | 7      | 0       | 0      | 29             | 5      |
| GC                             |           |        |        |        |         |        |                |        |
| 403                            | 29        | 7      | 12     | 6      | 0       | 0      | 22             | 5      |
| 501 <sup>a</sup>               | 23        | 3      | 0      | 0      | 0       | 0      | 23             | 3      |
| Multiple <sup>b</sup>          | 29        | 11     | 27     | 21     | 0       | 0      | 30             | 10     |
| Subtotal                       | 23        | 3      | 14     | 6      | 0       | 0      | 23             | 3      |
| HA                             |           |        |        |        |         |        |                |        |
| 407 <sup>a</sup>               | 28        | 3      | 0      | 0      | 0       | 0      | 28             | 3      |
| Multiple <sup>c</sup>          | 27        | 8      | 0      | 0      | 0       | 0      | 27             | 8      |
| Subtotal                       | 28        | 3      | 0      | 0      | 0       | 0      | 28             | 3      |
| L                              |           |        |        |        |         |        |                |        |
| 404                            | 29        | 4      | 19     | 4      | 50      | 44     | 27             | 3      |
| 501 <sup>a</sup>               | 27        | 4      | 0      | 0      | 0       | 0      | 27             | 4      |
| Multiple <sup>b</sup>          | 51        | 6      | 31     | 11     | 0       | 0      | 51             | 6      |
| Subtotal                       | 28        | 3      | 20     | 4      | 50      | 44     | 28             | 3      |
| M                              |           |        |        |        |         |        |                |        |
| 405                            | 35        | 4      | 15     | 4      | 45      | 25     | 32             | 3      |
| Multiple <sup>c</sup>          | 54        | 13     | 26     | 13     | 0       | 0      | 47             | 11     |
| Subtotal                       | 35        | 4      | 15     | 4      | 44      | 24     | 33             | 3      |
| W                              |           |        |        |        |         |        |                |        |
| 406                            | 26        | 7      | 0      | 0      | 100     | 0      | 20             | 6      |
| 501 <sup>a</sup>               | 43        | 10     | 0      | 0      | 0       | 0      | 43             | 10     |
| Multiple <sup>b</sup>          | 58        | 13     | 33     | 26     | 0       | 0      | 53             | 12     |
| Subtotal                       | 42        | 8      | 5      | 5      | 100     | 0      | 40             | 8      |
| Eastern YY <sup>c</sup>        |           |        |        |        |         |        |                |        |
| 501 <sup>a</sup>               | 29        | 3      | 0      | 0      | 0       | 0      | 29             | 3      |
| Multiple <sup>b</sup>          | 34        | 10     | 0      | 0      | 0       | 0      | 34             | 10     |
| Subtotal                       | 29        | 3      | 0      | 0      | 0       | 0      | 29             | 3      |
| Unknown YY <sup>d</sup>        |           |        |        |        |         |        |                |        |
| 501 <sup>a</sup>               | 27        | 6      | 0      | 0      | 0       | 0      | 27             | 6      |
| Multiple <sup>b</sup>          | 67        | 15     | 33     | 26     | 0       | 0      | 67             | 15     |
| Subtotal                       | 28        | 6      | 33     | 26     | 0       | 0      | 28             | 6      |
| Statewide                      |           |        |        |        |         |        |                |        |
| Total                          | 29        | 1      | 16     | 3      | 42      | 21     | 29             | 1      |

<sup>a</sup>Licenses were valid on private lands only.

<sup>b</sup>Hunters that purchased multiple hunting licenses for multiple hunting areas.

<sup>c</sup>Included Bay, Genesee, Huron, Lapeer, Macomb, Oakland, Saginaw, Sanilac, St Clair, and Tuscola counties within Management Unit YY.

<sup>d</sup>Hunting activity occurred at unknown location within Management Unit YY.

Table 5. Number of turkeys harvested during the 2010 Michigan fall turkey hunting season.

| Area and hunting license | Land type |        |        |        |         |        | All land types <sup>a</sup> |        |
|--------------------------|-----------|--------|--------|--------|---------|--------|-----------------------------|--------|
|                          | Private   |        | Public |        | Unknown |        |                             |        |
|                          | Total     | 95% CL | Total  | 95% CL | Total   | 95% CL | Total                       | 95% CL |
| G                        |           |        |        |        |         |        |                             |        |
| 401                      | 15        | 5      | 3      | 2      | 0       | 0      | 18                          | 5      |
| 501 <sup>b</sup>         | 461       | 105    | 0      | 0      | 0       | 0      | 461                         | 105    |
| Multiple <sup>c</sup>    | 17        | 6      | 0      | 0      | 0       | 0      | 17                          | 6      |
| Subtotal                 | 493       | 105    | 3      | 2      | 0       | 0      | 496                         | 105    |
| GB                       |           |        |        |        |         |        |                             |        |
| 402                      | 31        | 5      | 5      | 2      | 0       | 0      | 36                          | 6      |
| 501 <sup>b</sup>         | 569       | 139    | 0      | 0      | 0       | 0      | 569                         | 139    |
| Multiple <sup>c</sup>    | 25        | 8      | 1      | 1      | 0       | 0      | 26                          | 8      |
| Subtotal                 | 625       | 139    | 6      | 3      | 0       | 0      | 631                         | 139    |
| GC                       |           |        |        |        |         |        |                             |        |
| 403                      | 17        | 5      | 6      | 3      | 0       | 0      | 22                          | 5      |
| 501 <sup>b</sup>         | 929       | 155    | 0      | 0      | 0       | 0      | 929                         | 155    |
| Multiple <sup>c</sup>    | 5         | 2      | 1      | 1      | 0       | 0      | 6                           | 3      |
| Subtotal                 | 951       | 155    | 7      | 3      | 0       | 0      | 958                         | 155    |
| HA                       |           |        |        |        |         |        |                             |        |
| 407 <sup>b</sup>         | 283       | 36     | 0      | 0      | 0       | 0      | 283                         | 36     |
| Multiple <sup>c</sup>    | 13        | 4      | 0      | 0      | 0       | 0      | 13                          | 4      |
| Subtotal                 | 296       | 36     | 0      | 0      | 0       | 0      | 296                         | 36     |
| L                        |           |        |        |        |         |        |                             |        |
| 404                      | 93        | 14     | 48     | 11     | 2       | 2      | 142                         | 17     |
| 501 <sup>b</sup>         | 913       | 140    | 0      | 0      | 0       | 0      | 913                         | 140    |
| Multiple <sup>c</sup>    | 64        | 11     | 6      | 3      | 0       | 0      | 70                          | 12     |
| Subtotal                 | 1,069     | 141    | 54     | 11     | 2       | 2      | 1,125                       | 141    |
| M                        |           |        |        |        |         |        |                             |        |
| 405                      | 505       | 68     | 121    | 34     | 23      | 18     | 649                         | 76     |
| Multiple <sup>c</sup>    | 10        | 4      | 2      | 1      | 0       | 0      | 13                          | 4      |
| Subtotal                 | 516       | 68     | 124    | 34     | 23      | 18     | 662                         | 76     |
| W                        |           |        |        |        |         |        |                             |        |
| 406                      | 15        | 5      | 0      | 0      | 1       | 1      | 17                          | 5      |
| 501 <sup>b</sup>         | 241       | 72     | 0      | 0      | 0       | 0      | 241                         | 72     |
| Multiple <sup>c</sup>    | 14        | 5      | 1      | 1      | 0       | 0      | 16                          | 5      |
| Subtotal                 | 270       | 72     | 1      | 1      | 1       | 1      | 273                         | 72     |
| Eastern YY <sup>d</sup>  |           |        |        |        |         |        |                             |        |
| 501 <sup>b</sup>         | 1,837     | 217    | 0      | 0      | 0       | 0      | 1,837                       | 217    |
| Multiple <sup>c</sup>    | 13        | 5      | 0      | 0      | 0       | 0      | 13                          | 5      |
| Subtotal                 | 1,850     | 217    | 0      | 0      | 0       | 0      | 1,850                       | 217    |
| Unknown YY <sup>e</sup>  |           |        |        |        |         |        |                             |        |
| 501 <sup>b</sup>         | 342       | 91     | 0      | 0      | 0       | 0      | 342                         | 91     |
| Multiple <sup>c</sup>    | 10        | 4      | 1      | 1      | 0       | 0      | 12                          | 5      |
| Subtotal                 | 353       | 91     | 1      | 1      | 0       | 0      | 354                         | 91     |
| Statewide                |           |        |        |        |         |        |                             |        |
| Total <sup>a</sup>       | 6,422     | 347    | 197    | 36     | 26      | 18     | 6,645                       | 349    |

<sup>a</sup>Column and row totals for hunting effort may not equal statewide totals because of rounding errors.<sup>b</sup>Licenses were valid on private lands only.<sup>c</sup>Hunters that purchased multiple hunting licenses for multiple hunting areas.<sup>d</sup>Included Bay, Genesee, Huron, Lapeer, Macomb, Oakland, Saginaw, Sanilac, St Clair, and Tuscola counties within Management Unit YY.<sup>e</sup>Hunting activity occurred at unknown location within Management Unit YY.

Table 6. Proportion of hunters that rated their hunting experience as excellent, very good, or good during the 2010 Michigan fall turkey hunting season.

| Area and<br>hunting<br>license | Land type |        |        |        |         |        |                |        |
|--------------------------------|-----------|--------|--------|--------|---------|--------|----------------|--------|
|                                | Private   |        | Public |        | Unknown |        | All land types |        |
|                                | Total     | 95% CL | Total  | 95% CL | Total   | 95% CL | Total          | 95% CL |
| G                              |           |        |        |        |         |        |                |        |
| 401                            | 56        | 8      | 55     | 10     | 100     | 0      | 55             | 7      |
| 501 <sup>a</sup>               | 62        | 6      | 0      | 0      | 0       | 0      | 62             | 6      |
| Multiple <sup>b</sup>          | 79        | 10     | 75     | 20     | 0       | 0      | 78             | 9      |
| Subtotal                       | 62        | 5      | 57     | 10     | 100     | 0      | 62             | 5      |
| GB                             |           |        |        |        |         |        |                |        |
| 402                            | 61        | 5      | 46     | 9      | 100     | 0      | 60             | 5      |
| 501 <sup>a</sup>               | 70        | 5      | 0      | 0      | 0       | 0      | 70             | 5      |
| Multiple <sup>b</sup>          | 58        | 8      | 20     | 17     | 0       | 0      | 56             | 8      |
| Subtotal                       | 69        | 5      | 41     | 8      | 100     | 0      | 68             | 5      |
| GC                             |           |        |        |        |         |        |                |        |
| 403                            | 54        | 8      | 55     | 9      | 0       | 0      | 53             | 6      |
| 501 <sup>a</sup>               | 59        | 4      | 0      | 0      | 0       | 0      | 59             | 4      |
| Multiple <sup>b</sup>          | 79        | 10     | 80     | 9      | 100     | 0      | 78             | 9      |
| Subtotal                       | 59        | 4      | 57     | 8      | 100     | 0      | 59             | 4      |
| HA                             |           |        |        |        |         |        |                |        |
| 407 <sup>a</sup>               | 50        | 3      | 0      | 0      | 0       | 0      | 50             | 3      |
| Multiple <sup>b</sup>          | 63        | 8      | 0      | 0      | 0       | 0      | 63             | 8      |
| Subtotal                       | 51        | 3      | 0      | 0      | 0       | 0      | 51             | 3      |
| L                              |           |        |        |        |         |        |                |        |
| 404                            | 61        | 4      | 45     | 5      | 100     | 0      | 56             | 3      |
| 501 <sup>a</sup>               | 58        | 4      | 0      | 0      | 0       | 0      | 58             | 4      |
| Multiple <sup>b</sup>          | 72        | 5      | 75     | 10     | 0       | 0      | 72             | 5      |
| Subtotal                       | 58        | 4      | 48     | 5      | 100     | 0      | 58             | 3      |
| M                              |           |        |        |        |         |        |                |        |
| 405                            | 54        | 4      | 41     | 6      | 36      | 24     | 51             | 4      |
| Multiple <sup>b</sup>          | 85        | 9      | 70     | 16     | 100     | 0      | 79             | 9      |
| Subtotal                       | 55        | 4      | 41     | 6      | 38      | 24     | 51             | 4      |
| W                              |           |        |        |        |         |        |                |        |
| 406                            | 33        | 8      | 38     | 13     | 100     | 0      | 36             | 7      |
| 501 <sup>a</sup>               | 67        | 9      | 0      | 0      | 0       | 0      | 67             | 9      |
| Multiple <sup>b</sup>          | 67        | 13     | 0      | 0      | 0       | 0      | 53             | 12     |
| Subtotal                       | 63        | 8      | 32     | 11     | 100     | 0      | 62             | 8      |
| Eastern YY <sup>c</sup>        |           |        |        |        |         |        |                |        |
| 501 <sup>a</sup>               | 61        | 3      | 0      | 0      | 0       | 0      | 61             | 3      |
| Multiple <sup>b</sup>          | 53        | 10     | 0      | 0      | 0       | 0      | 53             | 10     |
| Subtotal                       | 61        | 3      | 0      | 0      | 0       | 0      | 61             | 3      |
| Unknown YY <sup>d</sup>        |           |        |        |        |         |        |                |        |
| 501 <sup>a</sup>               | 56        | 7      | 0      | 0      | 0       | 0      | 56             | 7      |
| Multiple <sup>b</sup>          | 78        | 13     | 67     | 26     | 0       | 0      | 78             | 13     |
| Subtotal                       | 56        | 7      | 67     | 26     | 0       | 0      | 56             | 7      |
| Statewide                      |           |        |        |        |         |        |                |        |
| Total                          | 60        | 1      | 44     | 4      | 50      | 20     | 59             | 1      |

<sup>a</sup>Licenses were valid on private lands only.

<sup>b</sup>Hunters that purchased multiple hunting licenses for multiple hunting areas.

<sup>c</sup>Included Bay, Genesee, Huron, Lapeer, Macomb, Oakland, Saginaw, Sanilac, St Clair, and Tuscola counties within Management Unit YY.

<sup>d</sup>Hunting activity occurred at unknown location within Management Unit YY.

Table 7. Number of hunters, hunting effort, harvest, hunter success, and hunter satisfaction during the 2010 Michigan fall turkey hunting season, summarized by county.

| County     | Hunters <sup>a</sup> |           | Hunting efforts<br>(days) <sup>a</sup> |           | Harvest <sup>a</sup> |           | Hunter success |           | Hunter<br>satisfaction <sup>b</sup> |           |
|------------|----------------------|-----------|--|-----------|----------------------|-----------|----------------|-----------|-------------------------------------|-----------|
|            | Total                | 95%<br>CL | Total                                  | 95%<br>CL | Total                | 95%<br>CL | %              | 95%<br>CL | %                                   | 95%<br>CL |
| Alger      | 79                   | 28        | 671                                    | 410       | 16                   | 13        | 21             | 14        | 41                                  | 18        |
| Allegan    | 674                  | 102       | 5,551                                  | 1,086     | 231                  | 68        | 31             | 7         | 52                                  | 8         |
| Baraga     | 30                   | 18        | 105                                    | 79        | 4                    | 6         | 13             | 20        | 38                                  | 29        |
| Barry      | 544                  | 93        | 3,605                                  | 838       | 114                  | 40        | 20             | 7         | 48                                  | 9         |
| Bay        | 106                  | 46        | 681                                    | 407       | 49                   | 31        | 46             | 22        | 61                                  | 21        |
| Berrien    | 350                  | 80        | 2,313                                  | 746       | 91                   | 38        | 26             | 10        | 61                                  | 11        |
| Branch     | 404                  | 88        | 2,086                                  | 617       | 116                  | 50        | 27             | 10        | 65                                  | 11        |
| Calhoun    | 493                  | 97        | 2,834                                  | 822       | 135                  | 53        | 25             | 9         | 56                                  | 10        |
| Cass       | 369                  | 79        | 2,451                                  | 697       | 122                  | 45        | 31             | 10        | 62                                  | 11        |
| Charlevoix | 3                    | 0         | 21                                     | 0         | 4                    | 0         | 100            | 0         | 100                                 | 0         |
| Chippewa   | 324                  | 54        | 1,936                                  | 542       | 110                  | 35        | 32             | 8         | 59                                  | 9         |
| Clinton    | 365                  | 84        | 1,993                                  | 633       | 99                   | 47        | 25             | 10        | 71                                  | 10        |
| Delta      | 255                  | 48        | 1,456                                  | 425       | 103                  | 32        | 37             | 10        | 40                                  | 10        |
| Dickinson  | 259                  | 49        | 1,514                                  | 390       | 89                   | 31        | 33             | 9         | 48                                  | 10        |
| Eaton      | 344                  | 81        | 1,804                                  | 587       | 54                   | 31        | 15             | 8         | 56                                  | 12        |
| Genesee    | 673                  | 115       | 4,553                                  | 994       | 163                  | 59        | 23             | 7         | 55                                  | 9         |
| Gogebic    | 247                  | 48        | 2,079                                  | 551       | 60                   | 24        | 24             | 9         | 50                                  | 10        |
| Gratiot    | 315                  | 77        | 1,909                                  | 575       | 117                  | 59        | 31             | 12        | 54                                  | 12        |
| Hillsdale  | 526                  | 101       | 3,752                                  | 1,031     | 127                  | 57        | 22             | 8         | 60                                  | 10        |
| Houghton   | 20                   | 14        | 103                                    | 83        | 1                    | 0         | 5              | 4         | 43                                  | 35        |
| Huron      | 642                  | 113       | 3,583                                  | 818       | 207                  | 75        | 28             | 8         | 56                                  | 9         |

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.



Table 7 (continued). Number of hunters, hunting effort, harvest, hunter success, and hunter satisfaction during the 2010 Michigan fall turkey hunting season, summarized by county.

| County     | Hunters <sup>a</sup> |           | Hunting efforts<br>(days) <sup>a</sup> |           | Harvest <sup>a</sup> |           | Hunter success |           | Hunter<br>satisfaction <sup>b</sup> |           |
|------------|----------------------|-----------|--|-----------|----------------------|-----------|----------------|-----------|-------------------------------------|-----------|
|            | Total                | 95%<br>CL | Total                                  | 95%<br>CL | Total                | 95%<br>CL | %              | 95%<br>CL | %                                   | 95%<br>CL |
| Ingham     | 508                  | 97        | 3,333                                  | 915       | 148                  | 57        | 26             | 8         | 57                                  | 10        |
| Ionia      | 290                  | 75        | 2,161                                  | 780       | 77                   | 43        | 24             | 11        | 66                                  | 12        |
| Iron       | 206                  | 44        | 1,373                                  | 508       | 106                  | 37        | 46             | 11        | 58                                  | 11        |
| Isabella   | 252                  | 64        | 1,425                                  | 446       | 113                  | 46        | 40             | 13        | 76                                  | 10        |
| Jackson    | 797                  | 123       | 4,694                                  | 1,102     | 192                  | 70        | 20             | 6         | 56                                  | 8         |
| Kalamazoo  | 414                  | 85        | 3,047                                  | 823       | 93                   | 40        | 22             | 8         | 50                                  | 10        |
| Kent       | 756                  | 118       | 4,453                                  | 954       | 228                  | 81        | 25             | 7         | 68                                  | 7         |
| Keweenaw   | 0                    | 0         | 0                                      | 0         | 0                    | 0         | 0              | 0         | 0                                   | 0         |
| Lapeer     | 801                  | 125       | 5,041                                  | 1,127     | 251                  | 73        | 30             | 7         | 66                                  | 8         |
| Lenawee    | 370                  | 85        | 2,419                                  | 915       | 93                   | 43        | 25             | 10        | 62                                  | 11        |
| Livingston | 648                  | 111       | 4,528                                  | 1,054     | 167                  | 64        | 23             | 7         | 62                                  | 8         |
| Luce       | 4                    | 6         | 4                                      | 6         | 0                    | 0         | 0              | 0         | 100                                 | 0         |
| Mackinac   | 47                   | 22        | 172                                    | 105       | 19                   | 14        | 40             | 23        | 66                                  | 22        |
| Macomb     | 226                  | 67        | 1,059                                  | 371       | 57                   | 33        | 25             | 13        | 62                                  | 14        |
| Marquette  | 108                  | 33        | 551                                    | 220       | 19                   | 14        | 17             | 12        | 38                                  | 15        |
| Mecosta    | 248                  | 28        | 1,537                                  | 243       | 70                   | 17        | 26             | 6         | 50                                  | 6         |
| Menominee  | 232                  | 46        | 1,162                                  | 305       | 72                   | 28        | 29             | 9         | 49                                  | 10        |
| Midland    | 357                  | 77        | 1,994                                  | 563       | 159                  | 56        | 41             | 11        | 52                                  | 11        |
| Montcalm   | 421                  | 87        | 2,611                                  | 739       | 147                  | 52        | 32             | 10        | 60                                  | 10        |
| Muskegon   | 450                  | 88        | 2,709                                  | 656       | 176                  | 83        | 28             | 9         | 68                                  | 9         |
| Newaygo    | 374                  | 32        | 2,337                                  | 316       | 124                  | 26        | 28             | 5         | 54                                  | 5         |

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

Table 7 (continued). Number of hunters, hunting effort, harvest, hunter success, and hunter satisfaction during the 2010 Michigan fall turkey hunting season, summarized by county.

| County      | Hunters <sup>a</sup> |           | Hunting efforts<br>(days) <sup>a</sup> |           | Harvest <sup>a</sup> |           | Hunter success |           | Hunter satisfaction <sup>b</sup> |           |
|-------------|----------------------|-----------|--|-----------|----------------------|-----------|----------------|-----------|----------------------------------|-----------|
|             | Total                | 95%<br>CL | Total                                  | 95%<br>CL | Total                | 95%<br>CL | %              | 95%<br>CL | %                                | 95%<br>CL |
| Oakland     | 485                  | 97        | 2,417                                  | 646       | 173                  | 71        | 31             | 9         | 63                               | 10        |
| Oceana      | 240                  | 28        | 1,576                                  | 270       | 75                   | 20        | 28             | 6         | 50                               | 7         |
| Ontonagon   | 97                   | 31        | 738                                    | 361       | 19                   | 14        | 19             | 13        | 50                               | 16        |
| Ottawa      | 528                  | 98        | 2,938                                  | 718       | 225                  | 79        | 35             | 9         | 69                               | 9         |
| Saginaw     | 557                  | 104       | 3,598                                  | 1,034     | 195                  | 65        | 34             | 9         | 60                               | 9         |
| St. Clair   | 753                  | 123       | 4,499                                  | 1,163     | 242                  | 99        | 23             | 7         | 64                               | 8         |
| St. Joseph  | 287                  | 71        | 1,926                                  | 691       | 95                   | 45        | 30             | 11        | 65                               | 12        |
| Sanilac     | 825                  | 126       | 5,420                                  | 1,169     | 252                  | 75        | 29             | 7         | 60                               | 8         |
| Schoolcraft | 41                   | 20        | 182                                    | 112       | 8                    | 9         | 18             | 20        | 40                               | 24        |
| Shiawassee  | 392                  | 88        | 3,002                                  | 986       | 99                   | 63        | 18             | 9         | 50                               | 11        |
| Tuscola     | 781                  | 125       | 5,348                                  | 1,208     | 256                  | 93        | 28             | 7         | 61                               | 8         |
| Van Buren   | 464                  | 93        | 2,927                                  | 807       | 122                  | 46        | 26             | 9         | 63                               | 10        |
| Washtenaw   | 536                  | 100       | 3,091                                  | 781       | 130                  | 57        | 20             | 7         | 60                               | 9         |
| Unknown     | 1,497                | 159       | 7,883                                  | 1,216     | 434                  | 94        | 27             | 5         | 54                               | 5         |

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.